North Lake Washington Chinook Population - Tier 2 - Initial Habitat Project List
Includes Potential Restoration and Protection Projects by Reach.
Evans Creek Subarea Reaches 1-7

Reach 1: Confluence with Bear Creek to 188th Street
Restoration

Technical Hypothesis: *Reduce sedimentation, add LWD, restore riparian conditions and increase channel complexity.*

Project #	Reach #	Reach Rest. Benefit Rank	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
	1	6 of 7		No projects identified at this time.				

Protection

Technical Hypothesis: *Protect forest cover, wetlands, flows, riparian function, LWD and channel connectivity.*

Project #	Reach #	Reach Prot. Benefit Rank	Existing Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N431	1	1		new	**Increase Buffer:** Consider increasing buffer in reach 1. Extensive restoration done in reach as part of Millennium project. Buffer is now 135 feet. Continue to monitor site and maintain vegetation for maximum growth especially on the southside of the creek.			**M**	**L**

Reach 2: 188th Street to Union Hill Rd Crossing (leave UGA)
Restoration

Technical Hypothesis: *Reduce sedimentation, add LWD, restore riparian conditions and increase channel complexity.*

Project #	Reach #	Reach Rest. Benefit Rank	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N432	2	3 of 7	new	**Evans Creek Relocation Study:** Study feasibility of relocating Evans Creek to the North, away from industrial area. Potential project elements would include: increasing buffer, connecting wetlands to creek, adding stormwater facilities to improve water quality, adding LWD to increase channel complexity. Some of the property that creek would be relocated to is owned by the City of Redmond.		Need to study hydrology of area and groundwater. Concern about not increasing flooding, keeping existing wetlands viable. Property owner willingness is unknown. Has potential benefits for chinook rearing, but primary benefit might be to other salmon species. Benefit cannot be determined until more is known about geology of area.	**?**	**M**

N433	2	3 of 7	new	**Restore Evans Creek In-Place:** If creek is not relocated, enhance stream conditions in existing location. Project elements include: adding stormwater facilities to improve water quality, increasing buffer, add LWD, increase channel complexity and pools, reduce road crossings and armoring of banks, connect wetlands to creek and restore riparian vegetation.		Would need to work with businesses in reach for restoration to occur. If area is redeveloped would be an opportunity to improve creek conditions.	**M**	**L**

Protection

Technical Hypothesis: *Protect forest cover, wetlands, flows, riparian function, LWD and channel connectivity.*

Project #	Reach #	Reach Prot. Benefit Rank	Existing Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
	2	3 (tied with R 3, 4)			No projects identified at this time.				

Reach 3: Union Hill Rd Crossing to 196th St Crossing

Restoration

Technical Hypothesis: Reduce sedimentation, add LWD, restore riparian conditions and increase channel complexity.

Project #	Reach #	Reach Rest. Benefit Rank	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
N434	3	1 of 7	new	**Restoration of Johnson Park:** Control invasive, non-native vegetation within park and enhance existing riparian vegetation and enhance channel complexity of Evans Creek through the park.			**M**	**H**
N435	3	1 of 7	new	**Riparian Restoration in Reach 3:** Work with private property owners in Reach 3 to improve riparian conditions, increase buffer, add large woody debris and increase channel complexity.			**H/M**	**M**

Protection

Technical Hypothesis: *Protect forest cover, wetlands, flows, riparian function, LWD and channel connectivity.*

Project #	Reach #	Reach Prot. Benefit Rank	Existing Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N436	3	3 (tied with R 3, 4)		new	**Protect Johnson Park:** Protect existing habitat in undeveloped Johnson Park. There are plans for adding a trail through the park. Should be done in a way that does not harm Evans Creek.			**H/M**	**H**

Reach 4: 196th St Crossing to 196th St Crossing - Redmond Fall City Rd

Restoration

Technical Hypothesis: *Reduce sedimentation, add LWD, restore riparian conditions and increase channel complexity.*

Project #	Reach #	Reach Rest. Benefit Rank	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N437	4	4 of 7	1	**Pilot Project to Address Sedimentation, Reed Canary Grass and High Temperatures:** Conduct pilot project to address high sedimentation in Evans Creek, invasive reed canary grass that blocks fish passage and to restore riparian vegetation in order to reduce high temperatures in the creek. If successful, expand project to other reaches of Evans Creek.		There is a lot of sedimentation in Evans Creek from past farming practices and development in valley. Sources of sediment have been dealt with. Need to study sediment transport in creek. Potential Corps GI project. Can use lessons learned from Whatcom and Skagit Counties and from Kelsey Creek efforts to control reed canary grass. Will be expensive.	**M**	**L**

Protection

Technical Hypothesis: *Protect forest cover, wetlands, flows, riparian function, LWD and channel connectivity.*

Project #	Reach #	Reach Prot. Benefit Rank	Existing Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N438	4	3 (tied with R 2, 4)		new	**Protect Wetlands:** Work with private property owners in reach to protect existing wetlands.		Area is designated as farmed wetlands. Landowners mow wetlands in order to keep agricultural designation. There is flooding from beaver activity and high temperatures in reach.	**L**	**L**

Reach 5: 196th St Crossing & Redmond Fall City Rd to Redmond-Fall City Rd Crossing (downstream of 208th)

Restoration

Technical Hypothesis: *Reduce sedimentation, add LWD, restore riparian conditions and increase channel complexity.*

Project #	Reach #	Reach Rest. Benefit Rank	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N439	5	2 of 7	new	**Evans Creek Restoration in Reach 5:** Creek is constrained by Redmond Fall City Road in Reach 5 and in agricultural use. Move Evans Creek away from Redmond Fall City Road, reduce channelization and increase buffer. Restore riparian vegetation and increase channel complexity.		Redmond Fall City Road (Rt. 202) is being widdened. Maybe too late to identify this work as potential mitigation for widdening project. Note: Meeting participants said Reach 6 is the upper extent of chinook in Evans Creek.	**M/L**	**M**

Protection

Technical Hypothesis: *Protect forest cover, wetlands, flows, riparian function, LWD and channel connectivity.*

Project #	Reach #	Reach Prot. Benefit Rank	Existing Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
	5	4			No projects identified at this time.				

Reach 6: Redmond-Fall City Rd Crossing (downstream of 208th) to Redmond-Fall City Rd Crossing (upstream of 208th)

Restoration

Technical Hypothesis: *Reduce sedimentation, add LWD, restore riparian conditions and increase channel complexity.*

Project #	Reach #	Reach Rest. Benefit Rank	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
	6	7 of 7		No projects identified at this time.				

Protection

Technical Hypothesis: *Protect forest cover, wetlands, flows, riparian function, LWD and channel connectivity.*

Project #	Reach #	Reach Prot. Benefit Rank	Existing Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
	6	2 of 7 (tied with R7)			No projects identified at this time.				

Reach 7: Redmond-Fall City Rd Crossing (upstream of 208th) to 224th St Rd Crossing; Upper extent of Chinook

Restoration

Technical Hypothesis: *Reduce sedimentation, add LWD, restore riparian conditions and increase channel complexity.*

Project #	Reach #	Reach Rest. Benefit Rank	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
	7	5 of 7		No projects identified at this time.				

Protection

Technical Hypothesis: *Protect forest cover, wetlands, flows, riparian function, LWD and channel connectivity.*

Project #	Reach #	Reach Prot. Benefit Rank	Existing Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M, L	Feasib. H, M, L
	7	2 of 7 (tied with R 6)			No projects identified at this time.				

Evans Creek Headwaters

Restoration

Technical Hypothesis: *Reduce sedimentation, add LWD, restore riparian conditions and increase channel complexity.*

Project #	Reach #	Reach Rest. Benefit Rank	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
	head-waters	not ranked		No projects identified at this time.				

Protection

Technical Hypothesis: *Protect forest cover, wetlands, flows, riparian function, LWD and channel connectivity.*

Project #	Reach #	Reach Prot. Benefit Rank	Existing Prot. Priority (Y/N)	NTAA #	NTAA Name & Description	Approx. Cost	Notes, Key Uncertainties	Benefits to Chinook H, M. L	Feasib. H, M, L
N440	head-waters	not ranked		new	**Protect Headwaters of Evans Creek:** Protect and maintain 700 acre wetland complex that drains to Evans Creek, Bear Creek and the Snoqualmie River. The wetland has been set aside as open space as part of the Redmond Ridge development. This wetland needs long-term stewardship to prevent encroachment, incompatible uses of the site, and invasive vegetation. A new urban planned development has been proposed, Redmond Ridge East, that could further alter this headwater wetland.		There is a proposal to have the Cascade Land Conservancy work with the homeowners association to oversee long-term stewardship of this wetland, similar to what has been done on the Hazel Wolf Wetlands Perserve. There are also public outreach and education opportunities with this proposed approach.	**H**	**H**